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Sculpture Plus Composite MSDS

Section 1: Product and Company Identification

Product Name: Sculpture® Plus Nano-Hybrid Indirect Restorative Composites (Body, Initial, Opaque Body, Neck Paste, Range Modifier)

Material Safety Sheet Number: 00201

Date of Issue: 3/08/03

Revision Date: Not applicable

Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT U.S.A. 06492

Phone: 800-243-3100 / 203-265-7397

Emergency Information Chemtrec:

800-424-9300

Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical Characteristics: A blend of difunctional methacrylates of PC BisGMA, EBPA/DMA, PCDMA, BisGMA, UDMA and HDDMA; silanated fillers such as barium boro-silicate glass; nano-particulated silica, zirconium silicate; photoinitiator, accelerator, stabilizer and pigments.

*contains a small amount of Al_2O_3

3. Hazard Identification

Risk Identification: Avoid eye contact and ingestion.

Special Risks for Human Beings and Environment: Avoid prolonged skin contact with uncured material. Adequate ventilation.

Classification: Classification corresponds to actual EEC guidelines.

4. First Aid Measures

General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult a physician.

After swallowing: Seek medical advice immediately.

5. Fire Fighting Measures

Extinguishing Media: CO_2 , water

Protective Equipment: Unknown

6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended.

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material.

Additional Information: Unknown

7. Handling and Storage

Storage: Store in a dry and cool place below 75°F. Protect from light source. Do not store in sunlight or hot areas. Store away from foodstuffs.

8. Exposure Controls/Personal Protection

Additional Information for Technical Plants: Unknown

Components with Limits of Values to be Supervised at the Workplace:

Unknown. The product contains no relevant quantities of components with limits of values to be supervised at the workplace.

Additional Information:

Personal protective equipment: Protective gloves, goggles are recommended

General measure of protection and hygiene: Normal hygienic measures

Respiration: Not applicable

Hands: Protective gloves

Eyes: OSHA approved goggles

9. Physical/Chemical Properties

Appearance:

Form: Viscous paste

Color: Tooth colored

Odor: Slight ester-like odor

Melting Point/Melting Range: Not applicable

Boiling Point/Boiling Range: Not applicable

Flash Point: Not applicable

Autoignition Temperature: Unknown

Danger of Explosion: Not likely

Density: ca. 1.8–1.9 g/cm³

Vapor Pressure: Not applicable

Viscosity: Paste

pH: Not applicable

Solubility in/Miscibility with Water: None

Content of Solvents: None

Organic Solvents: None

Water: None

Content of solids: >70%

10. Stability and Reactivity

Stability: Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators.

Hazardous Decomposition Products: Not known

11. Toxicological Information

Allergic reaction to users and patients with known sensitivity to any ingredients of this composite is possible. The products are non-cytotoxic.

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Yes. Skin absorption: Unknown.

Eye: Irritating

Inhalation: Non-volatile

Ingestion: Possibly toxic when swallowed in excess amounts in the uncured state.

Sensitization of Product: Not observed

Additional Toxicological Information: Non-mutagenic

12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

13. Disposal Considerations

Product Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

14. Transport Information

RID/ADR: Not a hazardous material

15. Regulatory Information

Classification According to EEC Guidelines: No classification necessary to actual EEC guidelines

National Prescriptions: Unknown

Classification according to VbF: Not applicable

16. Other Information

Revision Summary: No revisions have been made.

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Sculpture Plus Color Paste MSDS

Section 1: Product and Company Identification

Product Name: Sculpture® Plus Color Paste

Material Safety Sheet Number: 00302

Date of Issue: 3/8/03

Revision Date: Not applicable

Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT U.S.A. 06492

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical Characteristics: A blend of difunctional methacrylates of PCBGMA, BPPDMA, PCDMA, BisGMA, UDMA and HDDMA, fillers, curing agents, UV stabilizers, FDA & FCC approved pigments.

3. Hazard Identification

Risk Identification: None known in the cured form

Special Risks for Human Beings and Environment: Sensitivity to its ingredients

4. First Aid Measures

General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult an Ophthalmologist.

After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

5. Fire Fighting Measures

Extinguishing Media: CO₂, sand, vermiculite/soda ash/foam for absorbance and fire extinguishment

Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material or cure it with a visible light source and dispose the cured material as per local disposal codes.

Additional Information: Unknown

7. Handling and Storage

Storage: Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

8. Exposure Controls and Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended

General Measure of Protection and Hygiene: Normal hygienic measures

Respiration: Use adequate general and local ventilation and OSHA approved respirators.

Hands: Protective gloves

Eyes: OSHA approved goggles

9. Physical and Chemical Properties

Appearance:

Form: viscous paste

Color: varying

Odor: ester-like odor.

Flash Point: >150°C (>300°F)

Autoignition Temperature: >260°C (>500°F)

Danger of Explosion: Not likely

Density: c.a. 1.12 g/cm³

pH: Not applicable

10. Stability and Reactivity

Stability: Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400-700nm wavelength). Insoluble in water in the polymerized state.

11. Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Yes. Skin absorption: Unknown

Eye: Irritating

Inhalation: Non-volatile

Ingestion: Possibly toxic when swallowed

Additional Toxicological Information: Non-mutagenic

12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown.

13. Disposal Considerations

Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

14. Transport Information

RID/ADR: Not a hazardous material

15. Regulatory Information

Not available

16. Other Information

Revision Summary: No revisions have been made.

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Sculpture® Plus LP Glaz MSDS

1. Chemical Product and

Contact Information

Product Name: Sculpture® Plus LP Glaz

Material Safety Sheet Number: 00199

Date of Issue: 3/8/03

Revision Date: Not applicable

Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT 06492 U.S.A.

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

2. Composition/Information

on Ingredients

Proprietary mixture of various methacrylates with acetone and light curing activators

Acetone: less than 50%

Methyl Methacrylates: less than 10%

3. Hazard Identification

Risk Identification: None known

Special Risks for Human Beings and Environment: Sensitivity to its ingredients

4. First Aid Measures

General Information:

After skin contact: Wash with plenty of water and soap.

After eye contact: Rinse with plenty of water and consult an Ophthalmologist.

After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

5. Fire Fighting Measures

Extinguishing Media: CO₂, sand, vermiculite/soda ash/foam/ for absorbance and fire deterrence

Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended

Environmental Precautions: Unknown

Methods for Cleaning Up: Wipe up with absorbent material

Additional Information: Unknown

7. Handling and Storage

Storage: Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

8. Exposure Controls/Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended

General Measure of Protection and Hygiene: Normal hygienic measures

Respiration: Use adequate general and local ventilation and OSHA approved respirators.

Hands: Protective gloves

Eyes: OSHA approved goggles

9. Physical and Chemical Properties

Appearance:

Form: liquid

Color: slightly yellow

Odor: ester-like odor

Flash Point: -26°C (-15°F)

Autoignition Temperature: 538°C (1000°F)

Danger of Explosion: Not likely

Density: (d₄) 0.93 g/cm³

pH: Not applicable

Solubility in/Miscibility with Water: None

Content of Solvents: <50%

Content of Solids: 0%

10. Stability and Reactivity

Stable. Avoid heat, direct sunlight.

Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400–700nm wavelength). Insoluble in water in the polymerized state.

11. Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Yes. Skin absorption: Unknown.

Eye: Irritating

Inhalation: Non volatile

Ingestion: Possibly toxic when swallowed

Additional Toxicological Information: Non-mutagenic

12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

13. Disposal Considerations

Recommendations: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

14. Transport Information

RID/AOR: Not a hazardous material.

15. Regulatory information

Not available

16. Other Information

Revision Summary: No revisions have been made.

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Sculpture Glo® MSDS Polish

Section 1: Product and Company Identification

Product Name: Sculpture Glo®

Material Safety Sheet Number: 00197

Date of Issue: 3/8/03

Revision Date: Not applicable

Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford CT 06492 U.S.A.

Phone: 800-551-0283 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7516

2. Composition/Information on Ingredients

A proprietary mixture of aluminum oxide, silicon oxides and wax binders.

3. Hazard Identification

Risk Identification: None known

Special Risks for Human Beings and Environment: Sensitivity to its ingredients, none to environment.

4. First Aid Measures

General Information:

After skin contact: Wash with plenty of water and soap

After eye contact: Rinse with plenty of water

After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required

5. Fire Fighting Measures

Extinguishing Media: water, mist, CO₂, sand, vermiculite/soda ash/foam for absorbance and fire deterrence

Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended

Environmental Precautions: Unknown

Methods for cleaning up: none; sweep into a container and dispose as per local disposal codes.

Additional Information: Unknown

7. Handling and Storage

Storage: No special storage. Do not place near heat.

8. Exposure Controls/Personal Protection

Personal Protective Equipment: No special equipment

General Measure of Protection and Hygiene: Normal hygienic measures

Respiration: Use adequate general and local ventilation and OSHA approved respirators.

Eyes: OSHA approved goggles

9. Physical and Chemical Properties

Appearance:

Form: semi-solid paste

Color: slightly tan

Odor: none

Flash point: >150°C (>300°F)

Autoignition Temperature:

>260°C (>500°F)

Danger of Explosion: Not likely

Density: c.a. 1.75 g/cm³

pH: Not applicable

10. Stability and Reactivity

Stability: Avoid heat, direct sunlight.

Incompatibility with other substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Insoluble in water

11. Toxicological Information

Allergic Reaction: None known

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Skin absorption: Unknown.

Eye: Irritating

Inhalation: Non-volatile

Ingestion: Non-toxic

Additional Toxicological Information:

Non-mutagenic

12. Ecological Information

General Information: stable, inert

Classification of Water Endangerment: None known

13. Disposal Considerations

Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

Disposal Key Number: Unknown

Uncleaned Packaging: Unknown

Recommendation: Unknown

14. Transport Information

RID/ADR: Not a hazardous material

15. Regulatory Information

Not available

16. Other Information

Revision Summary: No revisions have been made.

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Sculpture Plus Thinning Liquid MSDS

Section 1: Product and Company Identification

Product Name: Sculpture® Plus Thinning Liquid
 Material Safety Sheet Number: 00200
 Date of Issue: 3/8/03
 Revision Date: Not applicable
 Company Identification:
 Pentron® Laboratory Technologies, LLC
 P.O. Box 724, Wallingford, CT 06492 U.S.A.
 Phone: 800-551-0283 / 203-265-7397
 Emergency Information Chemtrec: 800-424-9300
 Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical Characteristics: A blend of difunctional methacrylates of PCBisGMA, EBPA/DMA, PCDMA, BisGMA, UDMA and HDDMA, curing agents and UV stabilizers.

3. Hazard Identification

Risk Identification: None known in the cured form
 Special Risks for Human Beings and Environment: Sensitivity to its ingredients

4. First Aid Measures

General Information:
 After skin contact: Wash with plenty of water and soap.
 After eye contact: Rinse with plenty of water and consult an Ophthalmologist
 After swallowing: Seek medical advice immediately. Allow normal vomiting and fresh air. Administer oxygen/perform CPR if required.

5. Fire Fighting Measures

Extinguishing Media: CO₂, sand, vermiculite/soda ash/foam for absorbance and fire deterrence
 Protective Equipment: Protective clothing and gear including a self-contained breathing apparatus

6. Accidental Release Measures

Personal Precautions: Protective gloves, goggles and others are recommended
 Environmental Precautions: Unknown
 Methods for Cleaning Up: Wipe up with absorbent material or cure it with a visible light source and dispose the cured material as per local disposal codes.
 Additional Information: Unknown

7. Handling and Storage

Storage: Store in a dry and cool place. Protect from light source. Do not store in high heat areas. Store away from foodstuffs.

8. Exposure Controls/Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended
 General Measure of Protection and Hygiene: Normal hygienic measures
 Respiration: Use adequate general and local ventilation and OSHA approved respirators
 Hands: Protective gloves
 Eyes: OSHA approved goggles

9. Physical and Chemical Properties

Appearance:
 Form: liquid
 Color: slightly yellow
 Odor: ester-like odor
 Flash Point: >150°C (>300°F)
 Autoignition Temperature: >260°C (>500°F)
 Danger of Explosion: Not likely
 Density: c.a. 1.10 g/cm³
 pH: Not applicable

10. Stability and Reactivity

Stability: Avoid heat, direct sunlight.
 Incompatibility With Other Substances: Avoid peroxides, strong oxidizers, reducing agents and free radical initiators. Will polymerize with light exposures (400-700nm wavelength). Insoluble in water in the polymerized state.

11. Toxicological Information

Allergic reaction to methacrylate by chronic exposure to product is possible.
 Acute Toxicity: Not available
 Primary Irritation:
 Skin Contact: Yes. Skin absorption: Unknown.
 Eye: Irritating
 Inhalation: Non volatile
 Ingestion: Possibly toxic when swallowed
 Additional Toxicological Information:
 Non-mutagenic

12. Ecological Information

General Information: Unknown
 Classification of Water Endangerment: Unknown

13. Disposal Considerations

Recommendation: Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.
 Disposal Key Number: Unknown
 Uncleaned Packaging: Unknown
 Recommendation: Unknown

14. Transport Information

RID/ADR: Not a hazardous material

15. Regulatory Information

Not available

16. Other Information

Revision Summary: No revisions have been made

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Sculpture® Plus Di Spacer MSDS

Section 1: Product and Company Identification

Product Name: Sculpture® Plus Die Spacer

Material Safety Sheet Number: 00198

Date of Issue: 03/08/03

Revision Date: Not applicable

Company Identification:

Pentron® Laboratory Technologies, LLC

P.O. Box 724, Wallingford, CT U.S.A. 06492

Phone: 800-243-3100 / 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical Characteristics: Mixture of Ammonia, Ammonia hydroxide, Latex solids, water.

Description: A spacer used to procure cement space

Hazardous Components: None known

3. Hazard Identification

Risk Identification: None known

Special Risks for Human Beings and Environment: None known. Some persons may be sensitive to latex component.

Classification: Classification corresponds to actual EEC guidelines.

4. First Aid Measures

General Information:

After skin contact: Wash with soap and water, consult physician if irritation occurs.

After eye contact: Flush with water for 15 minutes, including under eyelids. Consult an Ophthalmologist.

After swallowing: Do not induce vomiting. If conscious, give lots of water, get immediate medical attention.

5. Fire Fighting Measures

Extinguishing Media: Water, CO₂ or dry chemical for dried film

Protective Equipment: Self-contained breathing apparatus

6. Accidental Release Measures

Personal Precautions: Protective vinyl or rubber gloves

Environmental Precautions: Unknown

Methods for Cleaning Up: Confine spill to prevent contamination of sewer system or ground water. Absorb liquid with appropriate absorbent. Spills will cause slippery condition. If spill is on clothing or rug, wash (if possible) immediately to prevent curing on fabric. Rinse several times to completely remove. Dry with absorbent paper towels – dispose of properly.

7. Handling and Storage

Storage: Store in a cool place. Avoid temperature extremes. Keep from freezing. Keep container sealed. Avoid prolonged contact with skin. Wash immediately before setting.

8. Exposure Controls/Personal Protection

Personal Protective Equipment: Protective gloves, goggles are recommended.

General Measure of Protection and Hygiene: Normal hygienic measures

Respiration: Use adequate general and local ventilation

Hands: Protective gloves

Eyes: OSHA approved chemical safety goggles

9. Physical and Chemical Properties

Appearance:

Form: Viscous paste

Color: Light Tan

Odor: Slight ester-like odor

Information on Change in the Physical State:

Melting point/melting range: Not applicable

Boiling point/boiling range: Not applicable

Flash point: Not flammable

Autoignition temperature: Unknown

Danger of explosion: Not likely

Specific Gravity: 0.98 g/cm³

Vapor pressure at 25°C: Same as water

Viscosity: Paste

pH: Not applicable

Solubility with water: Miscible

10. Stability and Reactivity

Stability: Unstable when bottle is left open

Hazardous Decomposition Products: Thermal decomposition may produce toxic gas

Hazardous Polymerization: Just dries

11. Toxicological Information

Allergic Reaction: Persons with known sensitivity to latex

Acute Toxicity: Not available

Primary Irritation:

Skin Contact: Yes Skin absorption: Unknown.

Eye: Irritating

Inhalation: Non volatile

Ingestion: Possibly toxic when swallowed

Sensitization of Product:

Additional Toxicological Information: Non-mutagenic

12. Ecological Information

General Information: Unknown

Classification of Water Endangerment: Unknown

13. Disposal Considerations

Use proper landfill disposal or incineration in accordance with local, state, and federal regulations.

14. Transport Information

No special precautions necessary

15. Regulatory Information

Classification According to EEC Guidelines: No classification necessary to actual EEC guidelines.

16. Other Information

Revision Summary: No revisions have been made.

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MATERIAL SAFETY DATA SHEET

Jeneric/Pentron Inc.
P.O. Box 724
Wallingford, CT 06492
800-243-3100

MSDS Number: 0311974
CAS Number: Mixture
Date prepared: 03/11/97
Date update:

24 Hour Information Chemtrec: 800-424-9300
Telephone Number for information: 800-243-3100
Information Provided By: Weitao Jia, BDS, MS
Prepared By: dg

SECTION I: Material Identification & Hazard Components

Material Name

Conquest®/Sculpture™- Body, Opaceous Body, Color Modifiers, Chroma Modifiers, Incisals, Effects, Necks, Gingivals

SECTION I (A) Ingredients

Formulae: The specific chemical identity of the ingredient compounds is considered proprietary.

Cas. No.: Dental filled resin composite, visible light and heat vacuum

Curable polymer blend resins

Chemical Family: Dental grade functional oligocarbonate dimethacrylic esters, FDA & FDC approved pigments and silica filled.

SECTION I (B): Hazards

Avoid eye contact.

Avoid ingestion.

Avoid prolonged contact with skin, mucous membrane and oral mucosa while composite restorative material is in unpolymerized state.

SECTION II: Physical/Chemical Characteristics

Water Solubility - None

Specific Gravity - 1.95 gm/cc

Appearance and Odor - Viscous, colored dental composite filled resin, odorless. Visible light cure. Polymerization will occur between 400-700 nm light wave length and premature gelling at elevated temperature $\geq 140^{\circ}\text{F}$ (60°C).

SECTION III: Fire & Explosion Hazard Data

Flash Point and Method - $> 300^{\circ}\text{F}$ (149°C), material will congeal, semisolid phase (rubbery) at/below 40°F (4°C).

Autoignition Temperature - Between $400-800^{\circ}\text{F}$ ($204-427^{\circ}\text{C}$).

Extinguishing Media - Deprive of oxygen, allow to extinguish. Use foam/sand/vermiculite/soda ash for absorbance and fire deterrence.

Special Fire Fighting Procedures - Fire fighters should wear full protective clothing and gear including a self-containing breathing apparatus, CO_2 , hydrocarbons, methacrylate vapors liberate when ignited.

SECTION IV: Reactivity Hazard Data

Reactivity in water - None in polymerized/hardened state - insoluble.
Negligible trace amount water sorption - long term. Avoid moisture contamination or premature visible light exposure in unpolymerized state.
Conditions to Avoid: Heat, sparks and open flames.
Incompatibility: Acids, oxidizing agent, alkalines, amines.

SECTION V: Health Hazard Information TLV (see section II)

Flush eyes 15 min. with water, consult an ophthalmologist immediately. Rinse/flush under physician care with alkaline/saline solution. Remove copious amounts of water and paper towel when in contact with skin. Ingestion: consult a physician immediately, allow normal vomiting and fresh air. Administer oxygen/perform CPR if required

SECTION VI: Control and Protective Measures

Collect by mechanical means after binding with absorbing material (saw dust/sand/vermiculite, soda ash, etc.) and dispose appropriately. Remove the residues with paper towel. Wear protective clothing, lab coat, goggles, gloves.

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Ventilation: YES

Local Exhaust: YES

Goggles, gloves, intraoral rubber dam - recommended. Use fresh disposable brush tips with each patient - avoid cross contamination. Sterilize, autoclave and alcohol rinse all operative tools.

Store cool and dry at or below room temperature 73°F, 23°C, refrigerate preferably. Avoid visible light exposure - premature gelling/polymerization hardening between 400-700 nm wavelength. Avoid moisture contact in the unpolymerized state, acid, alkalies, salts, metals (except stainless steel instruments or dental alloy restorations, amines, peroxide catalysts and alcohol. Cap vials after usage and intermittently. Avoid prolonged skin, mucous membrane, oral mucosa and gingiva (gum tissue) contact. Avoid eye contact. Allow to bench rest and attain room temperature prior to usage.

MATERIAL SAFETY DATA SHEET

Jeneric/Pentron Inc.
P.O. Box 724
Wallingford, CT 06492
800-243-3100

MSDS Number: 0311972
CAS Number: 67-64-1
80-62-6
Date prepared: 03/11/97
Date update:

24 Hour Information Chemtrec: 800-424-9300
Telephone Number for information: 800-243-3100
Information Provided By: Arun Prasad, Ph.D.
Prepared By: dg

SECTION I: Material Identification & Hazard Components

Material Name

Conquest®/Sculpture™ - LP Glaze

SECTION I (A) Ingredients

Proprietary mixture of various methacrylates with acetones and light curing activators.
Chemical Family : Acrylates and methacrylates in acetone

SECTION I (B): Hazardous Ingredients

Acetone	< 50%
Methyl methacrylate	< 12%

SECTION II: Physical/Chemical Characteristics

Solubility in Water - None
Specific Gravity - 1.03 gm/cc
Appearance and Odor - Viscous liquid with acetone and MMA odor
Color - Colorless
Visible Light Cure: Polymerization will occur between 400 - 700 nm wavelength

SECTION III: Fire & Explosion Hazard Data

Flash Point:: -26°C (15°F), Autocignition temperature = 1000°F
Fire fighters should wear full protective clothing and gear including a self-contained breathing apparatus, CO₂, hydrocarbons and methacrylate vapors liberated upon ignition.
Use sand/vermiculite/soda ash/foam/ for absorbance and fire deterrance.

SECTION V: Health Hazard Data

Primary routes of entry: Eyes, Skin or Inhalation

Carcinogenicity: None of the components of this material are listed by IARC, NTP, OSHA, or ACIGH as a carcinogen.

Threshold limit value (TLV): For monomer: N.A.

FIRST AID:

Inhalation: Remove to fresh air. Get medical help if discomfort persists.

Eyes: Flush with water for 15 minutes. Including under eyelids. Consult an ophthalmologist.

Skin: Wash with soap and water, consult a physician if irritation occurs.

Ingestion: Do not induce vomiting. If conscious, give lots of water, get immediate medical attention.

SECTION VI: Control & Protective Measures

Respiratory protection: None in normal use.

Eye Protection: Goggles

Protective gloves: Rubber gloves

Work/hygienic practices: Observe normal care for working with chemicals.

SECTION VII: Precautions for Safe Handling & Use/Leak Procedures

In case material is released or spilled: Mop or wipe up and dispose in UN approved waste containers.

Waste disposal method: May be incinerated according to Federal, State and local regulations.

SECTION VIII: Special Precautions

Do not breathe mists or vapors. Store in cool dry place. Keep container closed to prevent contamination.

Wash thoroughly after use and before eating or smoking.

MATERIAL SAFETY DATA SHEET

Jeneric/Pentron Inc.
P.O. Box 724
Wallingford, CT 06492
800-243-3100

MSDS Number: 0311975
CAS Number: MIXTURE
Date prepared: 03/11/97
Date update:

24 Hour Information Chemtrec: 800-424-9300
Telephone Number for information: 800-243-3100
Information Provided By: Weitao Jia, BDS, MS
Prepared By: dg

SECTION I: Material Identification & Hazard Components

Material Name

Conquest®/Sculpture™- Color Concentrate

SECTION I (A) Ingredients

A mixture of dental grade functional oligocarbonate dimethacrylate, BisGMA, UDMA and TEGDMA with FDA & FDC approved pigments and silica, UV Stabilizer, polymerization initiators.

Chemical Family: Functional methacrylic esters.

SECTION I (B): Hazards

None Known.

Avoid contact with eyes, skin and mucous membrane.

SECTION II: Physical/Chemical Characteristics

Specific Gravity: 1.12 g/cc

Solubility in Water: None

Appearance and Odor: Vary by color and ester-like. Polymerization will occur between 400-700 nm light wavelength and premature gelling at elevated temperature.

SECTION III: Fire & Explosion Hazard Data

Flash Point: 300°F (149°C)

Autoignition Temperature: 400-800°F (204-427°C)

Firefighters should wear full protective clothing and gear.

Extinguishing Method: Chemical foam, carbon dioxide, dry chemical and water.

SECTION IV: Reactivity Hazard Data

Stability: Stable. Avoid heat and ignition sources, aging and contamination.

Incompatibility: Strong oxidizing and reducing agents and UV light.

SECTION V: Health Hazard Information TLV (see section II)

Routes of Entry: inhalation/ ingestion and skin.

Carcinogenicity: NTP: Not listed

IARC Monographs: not listed

OSHA Regulated: Not listed

FIRST AID:

Eyes: Immediately flush eyes with eyelids retracted with plenty of water for 15 min, Consult an ophthalmologist if needed.

Skin: Immediately wash with soap and water, remove contaminated clothing, consult a physician if irritation occurs.

Inhalation: Remove from source of exposure, Consult a physician.

Ingestion: Do NOT induce vomiting. Consult a physician.

SECTION VI: Control and Protective Measures

Respiratory Protection: Face mask recommended for prolonged exposure.

Eye Protection: Goggles recommended

Protective gloves: Yes

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

In case of spillage: Absorb with inert material, Collect in closed containers and dispose as recommended. Avoid skin contact, wear protective equipment. Waste Disposal:

Incineration according to Federal, State and Local regulations in a approved incineration unit.

SPECIAL PRECAUTIONS

Store material below 80°F away from direct sunlight, initiators, oxidizing and/or reducing agents. After expiration of storage time, spontaneous polymerization may occur.

SECTION IV: Reactivity Hazard Data

Reactivity in water: None in unpolymerized or polymerized hardened state - insoluble. Negligible trace amount water sorption - long term. Soluble in absolute alcohols; ethanol, methanol, acetone, etc. Avoid moisture contamination or premature visible light exposure in unpolymerized state.

SECTION V: Health Hazard Data**Emergency First Aid Procedures -**

EYE/SKIN: Flush eyes 15 minutes with water, consult an ophthalmologist immediately. Rinse/flush under physician care with alkaline/saline solution. Remove with paper towel and alcohol when in contact with skin - hypersensitive reaction may occur.

INGESTION: Consult physician immediately, allow normal vomiting and fresh air. Composite material is radiopaque/x-ray detectable.

Biocompatibility: Not reactive. "Biocompatible" in human blood hemolysis, eye irritation, intracutaneous, subcutaneous and intraoral toxicity extract injection tests, intramuscular implants and mucous membrane irritation implant tests.

Cytotoxicity: Not cytotoxic.

SECTION VI: Control & Protective Measures

Ventilation - Yes

Local Exhaust - Yes

Isolation - Goggles, gloves, intraoral rubber dam, cotton rolls, mylar forms and retraction cords recommended. Use fresh aliquots of composite with each patient - avoid instrument cross contamination. Sterilize, autoclave and alcohol rinse all operative tools.

SECTION VII: Precautions for Safe Handling & Use/Leak Procedures

Steps to be taken if material is spilled or released: Collect by mechanical means after binding with absorbing material (saw dust/sand/vermiculite/soda ash, etc.) and dispose appropriately. Remove the residues with paper towel. Wear protective clothing, lab coat, goggles, face mask and gloves.

SECTION VIII:

Store cool and dry at or below room temperature, 68°F, 20 °C, refrigerate preferably. Avoid visible light exposure - premature gelling/polymerization hardening will occur between 400-700 nm light wavelength, i.e.: Halogen, white/blue light. Avoid moisture contact in the unpolymerized state, acid, alkalies, salts, metals (except stainless steel alloy instruments), amines, peroxide catalysts, alcohols, oils, fluorides, eugenol containing materials, ferric sulfate or aluminum chloride containing astringents and preimpregnated retraction cords. Cap syringes after usage and intermittently. Avoid instrument cross-contamination. Avoid prolonged skin, mucous membrane, oral mucosa and gingival (gum tissue) contact. Avoid eye contact. Avoid eye irritation. Allow to bench rest and attain room temperature prior to usage upon removal from refrigerator (approx. 30 min. rest period).